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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/617,872	07/14/2003	Kenji Date	Q76503	3837	
	590 08/25/2004		EXAMINER		
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			XU, LING X		
SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20037		1775		

DATE MAILED: 08/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Арр	lication No.	Applicant(s)
057		617,872	DATE ET AL.
Office Action Summary	Exa	miner	Art Unit
		X. Xu	1775
The MAILING DATE of this comm Period for Reply	nunication appears o	on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this companies of the period for reply specified above is less than third if NO period for reply is specified above, the maximum Failure to reply within the set or extended period for reany reply received by the Office later than three mont earned patent term adjustment. See 37 CFR 1.704(b)	JNICATION. ons of 37 CFR 1.136(a). Ir ommunication. y (30) days, a reply within t n statutory period will apply pply will, by statute, cause t hs after the mailing date of	n no event, however, may a he statutory minimum of thir and will expire SIX (6) MON he application to become A	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this communication.
Status			
1) Responsive to communication(s)	filed on 23 June 20	004.	
2a) This action is FINAL .	2b)⊠ This action		
3) Since this application is in condition			ters, prosecution as to the merits is
closed in accordance with the pra			
Disposition of Claims			
4) Claim(s) 1-12 is/are pending in the 4a) Of the above claim(s) 5-12 is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to rest	are withdrawn from		
Application Papers		orroquii orrioni.	
9) The specification is objected to by	the Eveniner		
10) ☐ The drawing(s) filed on 7/14/2003 i		ed or h) 🛛 objected	Lto by the Examiner
Applicant may not request that any ob			
	ng the correction is re	equired if the drawing((s) is objected to. See 37 CFR 1.121(d).
riority under 35 U.S.C. § 119			
12) Acknowledgment is made of a clair a) All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copie application from the Internat * See the attached detailed Office act	ty documents have by documents have s of the priority doc ional Bureau (PCT	been received. been received in Apuments have been Rule 17.2(a)).	oplication No received in this National Stage
ttachment(s)			
Notice of References Cited (PTO-892)		4) Interview Si	ummary (PTO-413)
Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449 (Paper No(s)/Mail Date 1/23/2004.	(PTO-948) or PTO/SB/08)	Paper No(s))/Mail Date formal Patent Application (PTO-152)
Palent and Trademark Office DL-326 (Rev. 1-04)	Office Action Sur	nman/	Part of Paper No./Mail Date 20040805

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-4, drawn to a porous sintered metal, classified in class 428, subclass 304.4.
 - II. Claims 5-12, drawn to a method of making the porous sintered metal, classified in class 264, subclass 628.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process such as the product can be produced by preparing a foamable slurry composition containing a metal powder, water soluble resin binder, water insoluble hydrocarbon organic solvent, surfactant and some plasticizers but no resin particles in the composition.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Peter Olexy on 6/23/2004 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-4.

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Affirmation of this election must be made by applicant in replying to this Office action. Claims 5-12 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Drawings

2. Color photographs and color drawings are acceptable only for examination purposes unless a petition filed under 37 CFR 1.84(a)(2) is granted permitting their use as acceptable drawings. In the event that applicant wishes to use the drawings currently on file as acceptable drawings, a petition must be filed for acceptance of the color photographs or color drawings as acceptable drawings. Any such petition must be accompanied by the appropriate fee set forth in 37 CFR 1.17(h), three sets of color drawings or color photographs, as appropriate, and, unless already present, an amendment to include the following language as the first paragraph of the brief description of the drawings section of the specification:

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

Color photographs will be accepted if the conditions for accepting color drawings have been satisfied.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hoshino et al. (US 6,117,592).

With respect to claim 1, Hoshino discloses that a porous sintered metallic material comprising a spongelike porous metallic substrate comprising a three-dimensional network skeleton with pores formed by the skeleton (col. 4, lines 1-40 and figure 1). The skeleton has micropores formed in the walls of the pores (figure 1) with an average micropore size of 0.5 to 20 um, which is within the claimed range of 1 um or more (col. 4, lines 15-25).

Hoshino also discloses that the BET surface area of the porous sintered metal is 300 to 11000 cm²/cm³ (col. 3, lines 20-35), which is within the claimed range of 700 cm²/cm³ or more.

Since the porous sintered metallic material is a spongelike porous metallic and has threedimensional network skeleton with pores formed by the skeleton, the pores are connected and capable of communicating between each other, see figure 1.

With respect to claims 2-3, Hoshino discloses the porous sintered metal has overall porosity of 80-99% (col. 4, lines 25-35).

With respect to claim 4, Hoshino discloses that the porous sintered metal can be used as filter (col. 8, lines 10-25).

Accordingly, Hoshino discloses all the limitations of claims 1-4.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling X. Xu whose telephone number is 571-272-1546. The examiner can normally be reached on 8:00 - 4:30 Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah D. Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ling X. Xu Examiner Art Unit 1775

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